INFORMATION DISCLOSURE STATEMENT

Atty. Docket No.: 150,0088 0103 Serial No.: 10/042,025

Applicant(s): Derderian et al. Confirmation No.:

Filing Date: 25 October 2001 Group: 2848

T.S. PATENT DOCUMENTS

1. vaminer Initial	Copy Unclosed	Document Number	Date	Name Name	Class	Subclass	Liling Date II Appropriate
PD		5,068,199	11/26/91	Sandhu	_		
1		5.130.172	07/14/92	Hicks et al.		_	
		5.130.885	07/14/92	Fazan et al.			
		5.314.727	05/24/94	McCormick et al.			
		5,318,920	06/07/94	Hayashide	_		
		5.342.800	08/30/94	Jun			
		5,352,488	10/04/94	Spencer et al.			
		5.372.849	12/13/94 *	McCormick et al.	_		
		5,372,962	12/13/94	Hirota et al.			
		5.392.189	02/21/95	Fazan et al.		_	
		5,427,974	06/27/95	Lur et al.			
		5,510,651	04/23/96	Maniar et al.		_	
		5,520,992	05/28/96	Douglas et al.			
		5,555,486	09/10/96	Kingon et al.			
		5,566,045	10/15/96	Summerfelt et al.			·
		5.561.307	10/01/96	Mihara et al.			
		5.581.436	12/03/96	Summerfelt et al.			
		5,608,247	03/04/97	Brown			
		5,612,560	03/18/07	Chivukula et al.			
		5,696,014	12 00/07	Figura			
		5.763.633	06/09/98	Vaartstra			
1		5,874,364	02/23/99	Nakabayashi et al.	_		
		5.877.063	03/02/99	Gilchrist			
PP	 	5,935,648	08 10,99	Roberson et al.	_		

EXAMINER	Date Considered
PHUC T. DANG	12/11/2003

Examiner: Initial if citation considered, whither or not citation is in conformance with MPFP not; Draw line through edution if not in conformance and not considered. Inclinde copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT Atty. Docket No.: 150,0088 0103 Serial No.: 10/042,025

Applicant(s): Derderian et al. Confirmation No.:

Filing Date: 25 October 2001 Group: 2818

Kaminer Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	1 iling Date II Appropriate
90		5,959,327	09/28/99	Sandhu et al.		_	
		5,962,065	10/05/99	Weimer et al.			
		5.962.716	10/05/99	Uhlenbrock et al.		_	
		5,980,983	11/09/99	Ciordon			
	·	5,985,714	11/16/99	Sandhu et al.			
,		5,990,559	11/23/09	Marsh	_	_	
		6,015,743	01/18/00	Zahurak et al.			
		6.037.220	03/14/00	Chien et al.	_	-	
		6,049,101	04/11/00	Gracttinger et al.		_	
		6,060,367	05/09/00	Sze		_	
		6,060,351	05/09/00	Parekh et al.			
		6,063,705	05/16/00	Vaartstra			
		6,074,945	06/13/00	Vaartstra et al.	_		
		6,078,072	06/20/00	Okudaira et al.		_	
		6.114.557	09/05/00	Uhlenbrock et al.		_	
		6.133.159	10/17/00	Vaartstra	-		
		6,197,628	03/06/01	Vaartstra et al.			
P ()	N	6,281,125	08/28/01	Vaurtstra et al.		_	

FOREIGN PATENT DOCUMENTS

Examiner Initial	Cops Enclosed	Distinct Sumber	Date	Country	Class	Subclass	T <u>rans</u> Yes	lation No
PP		JP 10163131	06/19/98	Japan (Abstract)				
PD		WO 0022658 A	06/20/00	PCT				
PD	N	WO 01/95376	12/13/01	PCT				

EXAMINER		Date Considered
	PHUE T. DANG	12/11/2003

Examiner: Initial if entation considered, whether or not entation is in conformance with MPTP 609; Draw line through entation d not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT

Atty. Docket No.: 150,0088 0103	Serial No.: 10/042,025		
Applicant(s): Derderian et al.	Confirmation No.:		
Filing Date: 25 October 2001	Group: 2818		

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

F varniner Initial	Copy Enclosed	DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.) Document Description
PP		Anderson et al., "Carborane Complexes of Ruthenium: A Convenient Synthesis of [Ru(CO) (η -7,8-C B.H. μ)] and a Study of Reactions of This Complex," Organometallics, 14, 3516-3526 (1995).
		Aoyama et al., "Chemical Vapor Deposition of Ru and Its Application in (Ba,Sr)TiO. Capacitors for Future Dynamic Random Access Memories," <i>Jpn. J. Appl. Phys.</i> , 38(2194–2109) (1909).
		Bar et al., "Low-temperature growth and orientational control in RuO ₂ thin films by metal-organic chemical vapor deposition", <i>Thin Solid Films</i> , 310, 75-80 (1997).
		Bennett et al., "Mono-olefin Chelate Complexes of Iron(0) and Ruthenium(0) with an Olefinic Tertiary Phosphine," J. Chem. Soc. D., 7, 341–342 (1971).
		Cowles et al., "Relative Reactivity of Co-ordinated Ligands in the Dienyltricarbonyl-ruthenium Cation, [(dienyl)Ru(CO),]"," Chemical Commun., 302 (1969).
		Green et al., "Chemical Vapor Deposition of Ruthenium and Ruthenium Dioxid Films," J. Electrochem. Soc., 132, 2677–2685 (1985).
		Igumenov, "MO CVD of Noble Metals", J. De Physique IV, 5, C5 489 C5-496 (1995).
_		Johnson et al., "Chemistry," Nature, 901-902 (1967).
		Kaesz et al., "Low-Temperature Organometallic Chemical Vapor Deposition of Transition Metals," Mat. Rev. Sec. Symp. Proc., 131, 395-400 (1989).
		Kawahara, Takaaki et al., '(Ba, Sr) FiO, Films Prepared by Liquid Source Chemical Vapor Deposition on Ru Electrodes," <i>Jpn. J. Appl. Phys.</i> , 35: 4880- 4885 (1996).
		Liao et al., "Characterization of RuO2 thin films deposited on Si by metal organic chemical vapor deposition," <i>Thin Solid Films</i> , 287, 74-79 (1996).
PD		Macchioni et al., "Cationic Bis- and Trism2-(pyrazol 1 y1)methane) Acetyl Complexes of Iron (II) and Ruthenium (II): Synthesis, Characterization, Reactivity, and Interionic Solution Structure by NOFSY NMR Spectroscopy," <i>Organometallies</i> , 16, 2139–2145 (1997).

EXAMINER	Date Considered
· PHUC T. DANG	12/11/200 3
<u></u>	

Examiner: Initial if citation considered, whether or not citation is in conformance with MPFP 609; Draw line through estation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION SIDISCLOSURE STATEMENT

Atty. Docl	ket No.: 150,0088 0103	Serial No.: 10/042,025
Applicant	(s): Derderian et al.	Confirmation No.:
Filing Dat	e: 25 October 2001	Group: 2818

1. Naminer Initial	Copy Enclosed	Document Description
Pb		Nakamura et al., "Embedded DRAM Technology compatible to the $0.13\mu m$ high-speed Logics by using Ru pillars in cell capacitors and peripheral vias," <i>IEEE</i> , (1998).
		Park et al., "Metallorgame Chemical Vapor Deposition of Ru and RuO. Using Ruthenocene Precursor and Oxygen Gas," <i>J. Electrochem. Soc.</i> , 147(203-209) (2000).
į.		Senzaki et al., Cheuncal Abstract 128:264103, Proc. Electrochem. Soc., 97-25 (Chemical Vapor Deposition), 933-43 (1997).
		Shin, "Characterization of RuO, Thin Films Prepared by Hot-Wall Metallorganic Chemical Vapor Deposition," J. Electrochem, Soc., 144, 1055 (1997).
		Sosinsky et al., "Hydrocarbon Complexes of Ruthenium: Part IV. Cyclic Dienyl Complexes", J. Chem. Soc., 16-17, 1633-1640 (1975).
		Takagi et al., "RuO, Bottom Electrodes for Ferroelectric (Pb. LanZr, Ti)O, Thin Fiolms by Metalorganic Chemical Vapor Deposition", <i>Jpn. J. Appl. Phys., 34</i> , 4104-4107 (1995).
		Versteeg et al., "Metalorganic Chemical Vapor Deposition By Pulsed Liquid Injection Using An Ultrasome Nozzle: Titamum Dioxide on Supphire from Titamium (IV) Isopropoxide," <i>Journal of the American Ceramic Society</i> , 78, 2763–2768 (1995).
		Yuan, "Low-Temperature Chemical Vapor Deposition of Ruthenium Dioxide form Ruthenium Tetroxide: A Simple Approach to High-Purity RuO, Films," <i>Chem. Mater.</i> , 5, 908 (1993).
Ýρ		Yang, Doo Young et al.: Characterization of Ru Electrodes for Ru/(Ba/Sr)(TiO)(Ru Capacitors," Ferroelectrics, 1996, ISAE '96; Proceedings of the Tenth IEEE International Symposium on Applications of Ferroelectrics" New York, NY, August 18, 1996; pgs. 515/518.

ENAMINER	Date Considered
PHUCT DANG	12/11/2003

I xaminer: Initial if citation considered, whether or not citation is in conformance with MPFP 609; Draw line through citation d not in conformance and not considered. Another copy of this form with next communication to applicant.